



SysTech
International

Rhode Island Vehicle Inspection Program

Average Emissions for Transient Initial Fails

From 1/1/2011 To 12/31/2011

Model	Passenger Car			Truck			Total			
Year	HC	CO	NO	HC	CO	NO	HC	CO	NO	
1987	4.40	44.15	2.42	5.95	67.56	3.18	5.17	55.85	2.80	
1988	3.42	61.30	1.97	7.21	52.75	2.95	5.31	57.03	2.46	
1989	4.67	66.32	2.39	8.08	99.06	4.33	6.37	82.69	3.36	
1990	4.08	61.28	3.08	7.83	94.90	2.95	5.96	78.09	3.02	
1991	3.39	50.89	2.28	6.22	94.69	3.17	4.81	72.79	2.73	
1992	2.94	45.25	3.47	4.42	43.55	3.40	3.68	44.40	3.44	
1993	3.41	40.19	3.33	6.73	63.24	2.68	5.07	51.72	3.00	
1994	2.74	42.27	2.43	5.33	62.70	2.89	4.04	52.48	2.66	
1995	3.29	47.18	2.67	5.56	55.31	3.45	4.43	51.25	3.06	
1996	3.15	66.42	1.35	3.09	5.26	1.01	3.12	35.84	1.18	
1997	1.33	12.37	4.15				1.33	12.37	4.15	
1998	1.31	27.30	2.99				1.31	27.30	2.99	
1999	1.15	7.13	2.71				1.15	7.13	2.71	
Total	3.02	44.00	2.71	6.04	63.90	3.00	4.33	52.65	2.84	

Rhode Island Vehicle Inspection Program

Average Emissions for Transient Passed Tests

From 1/1/2011 To 12/31/2011

Model	Passenger Car			Truck			Total		
Year	HC	CO	NO	HC	CO	NO	HC	CO	NO
1987	0.58	4.53	0.87	1.39	15.12	1.57	0.99	9.83	1.22
1988	0.64	4.67	0.89	1.18	10.17	1.05	0.91	7.42	0.97
1989	0.82	5.89	0.92	1.33	12.90	1.18	1.07	9.39	1.05
1990	0.64	4.96	0.75	0.99	9.05	1.24	0.82	7.01	0.99
1991	0.64	5.04	1.00	1.07	10.41	1.28	0.85	7.73	1.14
1992	0.54	5.18	1.02	1.03	11.17	1.68	0.78	8.18	1.35
1993	0.61	5.32	1.01	1.16	10.15	1.19	0.89	7.73	1.10
1994	0.68	5.38	1.02	1.26	11.74	1.28	0.97	8.56	1.15
1995	0.57	5.23	0.86	1.05	10.53	1.11	0.81	7.88	0.99
1996	0.55	6.70	0.46	1.76	3.29	0.47	1.15	5.00	0.47
1997	0.78	6.85	0.91				0.78	6.85	0.91
1998	0.46	5.74	1.18				0.46	5.74	1.18
1999	0.98	6.66	1.94				0.98	6.66	1.94
Total	0.65	5.55	0.99	1.22	10.45	1.21	0.90	7.68	1.08

2011 EPA Report Emissions Reductions	Average Emissions Reductions			
	2011	HC	CO	NO_x
	Initial Test	4.33	52.65	2.84
	Average Emissions After Repairs	0.9	7.68	1.08
	Difference	3.43	44.97	1.76
	Average Percent Reduction	79.21%	85.41%	61.97%